

## Message Text

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ORIGIN AEC-07

INFO OCT-01 EUR-08 IO-04 ISO-00 SCI-02 COME-00 EB-04

ACDA-05 FEA-01 L-01 NSC-05 CIAE-00 DODE-00 INR-05

NSAE-00 PA-01 RSC-01 USIA-06 PRS-01 SP-02 /054 R

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P R 182048Z OCT 74

FM SECSTATE WASHDC

TO AMEMBASSY VIENNA PRIORITY

INFO USMISSION IAEA VIENNA

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E.O. 11652: NA

TAGS: ENRG, BEXP, AU

SUBJECT: AUSTRIA'S SECOND NUCLEAR POWER PROJECT - PRESS  
REPORTS ON FLAWS IN U.S. NUCLEAR PLANTS -

REF: VIENNA 8248 AND 8579

1. RE YOUR REQUEST FOR ADDITIONAL INFORMATION TO DISPEL  
WIDESPREAD AND EXAGGERATED REPORTS ON SUBJECT MATTER, REPORT  
ON TESTIMONY GIVEN BY ARGONNE NATIONAL LABORATORY BEFORE  
ACRS OCTOBER 11 DETAILING RESULTS OF METALLURGICAL EXAMINA-  
TION AND FAILURE ANALYSES WILL BE POUCHED IMMEDIATELY  
UPON RELEASE, ANTICIPATED ABOUT OCTOBER 21. HIGHLIGHTS WILL  
BE CABLED. IN THE INTERIM, FOLLOWING GENERAL  
ARGUMENTS MAY BE HELPFUL:

. U.S. SAFETY REQUIREMENTS SECOND TO NONE, INCLUDING  
GERMANY. IN FACT, MOST FOREIGN SAFETY AND REGULATORY STANDARDS  
PATTERNED ON THOSE OF U.S. GERMAN INDUSTRY CLAIMS OF MORE  
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RIGOROUS SAFETY REQUIREMENTS, POSSIBLY FOR COMMERCIAL ADVAN

TAGES, NOT SUPPORT BY OFFICIAL GERMAN GOVERNMENT PRONOUNCEMENTS.

. GERMANY'S SUCCESS IN SECURING 1ST PLANT ATTRIBUTED LARGELY TO MORE FAVORABLE FINANCING.

. EXTENSIVE PUBLICITY GIVEN PROBLEM IS TRIBUTE TO OPENNESS OF OUR SYSTEM, AND THE DETAILED EXAMINATIONS ORDERED FOR ALL BWRS ILLUSTRATIVE OF CONSERVATIVE AEC REGULATORY PHILOSOPHY.

2. AT COUNSELOR BIRBAUM'S REQUEST, AUSTRIAN EMBASSY WASHINGTON PROVIDED BY REGULATORY WITH TEXT OF AEC NEWS RELEASE OF SEPTEMBER 20 AND INFORMATION FROM REGULATORY BULLETIN NO. 74-10 AS FOLLOWS:

INSTRUCTIONS TO BWR LICENSEES:

COMMONWEALTH EDISON COMPANY NOTIFIED REGION III OFFICE OF DIRECTORATE OF REGULATORY OPERATIONS BY TELEPHONE SEPT. 13-15, 1974, OF FINDING OF THROUGH-WALL CRACKS IN EACH OF TWO 4-INCH DIAMETER BYPASS LOOPS AROUND DISCHARGE VALVES OF RECIRCULATION PUMPS OF DRESDEN 2 FACILITY. EARLY WARNING OF REACTOR COOLANT LEAKAGE WAS PROVIDED BY PLANT'S DRYWELL SUMP COLLECTION SYSTEM.

IN EACH INSTANCE, CRACKS WERE IN HEAT AFFECTED ZONE OF STAINLESS STEEL WELDS JOINING 4-INCH PIPING TO WELD-O-LETS ON 28-INCH DIAMETER MAIN COOLANT RECIRCULATION PIPING. CRACKS WERE CIRCUMFERENTIAL, FROM 3/4 INCH TO 3 INCHES IN LENGTH ON THE EXTERIOR AND EXTENDING TO SUBSTANTIALLY GREATER LENGTHS ON INTERIOR OF PIPES.

IN ONE INSTANCE ("B" LOOP BYPASS LINE), AREA CONTAINING CRACK(S) CAN BE ISOLATED FOR REPAIR UTILIZING VALVES PRESENTLY INSTALLED. IN OTHER INSTANCE ("A" LOOP BYPASS LINE), AREA CONTAINING CRACKS CANNOT BE ISOLATED FROM REACTOR PRESSURE VESSEL WITH EXISTING VALVES IN PIPING SYSTEM. PROCEDURES FOR REPAIR OF THIS PORTION OF PIPING SYSTEM ARE PRESENTLY BEING CONSIDERED BY LICENSEE.

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METALLURGICAL EXAMINATIONS ARE BEING CONDUCTED BY LICENSEE'S CONSULTANTS TO AID IN DETERMINING CAUSE AND MECHANISM OF FAILURE. SEVERAL DAYS MAY BE REQUIRED FOR SUCH DETERMINATION.

INSPECTIONS CONDUCTED BY COMMONWEALTH EDISON COMPANY AT QUAD CITIES 2 ON SEPTEMBER 15, 1974, HAVE REVEALED CRACK

IN SIMILAR PIPING AT THAT FACILITY.

ACTION REQUESTED OF LICENSEES:

1. FOR THOSE BWR FACILITIES PRESENTLY SHUT DOWN, EXAMINE (BY ULTRASONIC OR OTHER SUITABLE VOLUMETRIC NONDESTRUCTIVE EXAMINATION TECHNIQUE) ALL ACCESSIBLE WELDS IN BYPASS PIPING LINES AROUND RECIRCULATION VALVES FOR EVIDENCE OF CRACK INDICATIONS SIMILAR TO THOSE DISCUSSED ABOVE. YOUR WRITTEN REPLY SHOULD DISCUSS THOSE WELDS DETERMINED TO BE INACCESSIBLE FOR EXAMINATION.

2. FOR THOSE BWR FACILITIES PRESENTLY OPERATING, CONDUIT EXAMINATIONS DISCUSSED IN 1. ABOVE AT EARLIEST OF FOLLOWING CONDITIONS:

A. NEXT SCHEDULED SHUTDOWN

B. SUCH TIME THAT (WITHIN SENSITIVITY SPECIFIED IN PARAGRAPH C-5 OF REGULATORY GUIDE 1.45) ANY REACTOR COOLANT LEAKAGE DETECTION SYSTEM INDICATES, WITHIN PERIOD OF 4 HOURS OR LESS, EITHER AN INCREASE IN UNIDENTIFIED LEAKAGE TO TWICE DETERMINED NORMAL RATE OF UNIDENTIFIED LEAKAGE OR AN INCREASE IN RATE OF UNIDENTIFIED LEAKAGE BY 2 GALLONS PER MINUTE OR MORE. (IN NO CASE, HOWEVER, SHALL RATE OF LEAKAGE EXCEED THAT SPECIFIED BY TECH SPECS WITHOUT THOSE ACTIONS REQUIRED OF TECH SPECS BEING TAKEN.)

C. 60 DAYS FROM DATE OF THIS BULLETIN (9/18/74).

3. NOTIFY THIS OFFICE BY TELEPHONE WITHIN 48 HOURS AND IN UNCLASSIFIED

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WRITING WITHIN 10 DAYS OF MEASURES YOU HAVE IMPLEMENTED OR PLAN TO IMPLEMENT WITH REGARD TO THOSE ACTIONS REQUESTED IN 1. AND/OR 2., ABOVE.

4. NOTIFY THIS OFFICE BY TELEPHONE WITHIN 24 HOURS (WITH WRITTEN CONFIRMATION WITHIN 10 DAYS) OF RESULTS OF EXAMINATIONS CONDUCTED IN RESPONSE TO THIS BULLETIN.

ACTIONS REQUESTED OF LICENSEES MAY BE MODIFIED:

ACTIONS REQUESTED OF LICENSEES, ABOVE, MAY BE MODIFIED BY THIS OFFICE AS MEANINGFUL RESULTS ARE AVAILABLE FROM METALLURGICAL EXAMINATIONS AND FAILURE ANALYSES PRESENTLY IN PROGRESS. END:DIP:GFH KISSINGER

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** NUCLEAR ENERGY, PROGRAMS (PROJECTS)  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 18 OCT 1974  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Authority:** n/a  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
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**Document Unique ID:** 00  
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**Enclosure:** n/a  
**Executive Order:** N/A  
**Errors:** N/A  
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